

Applicant: Hans-Christoph MAGEL
Docket No. R.305058
Preliminary Amdt.

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-11. (Canceled)

12. (New) In a servo-valve for a fuel injector equipped with a pressure booster whose working chamber is separated from a differential pressure chamber by a booster piston; an actuator can connect a control chamber of the servo-valve to a low-pressure return; and the differential pressure chamber of the pressure booster can be connected to a low-pressure return or to a return system in which the returns are connected to each other, the improvement comprising a first servo-valve piston having a surface continuously acted on by system pressure, with a first sealing seat on the first servo-valve piston, and a second servo-valve piston embodied in the form of a sealing sleeve and accommodated in an axially sliding fashion on the first servo-valve piston, the second servo-valve piston together with a valve housing, constituting a second sealing seat so that after the second sealing seat is closed by the second servo-valve piston, the first servo-valve piston opens the first sealing seat further.

13. (New) The servo-valve according to claim 12, wherein the first sealing seat is embodied on a first shaft region of the first servo-valve piston.

14. (New) The servo-valve according to claim 12, wherein the first servo-valve piston comprises a second shaft region whose piston end is provided with a stop oriented toward the second servo-valve piston.

15. (New) The servo-valve according to claim 13, wherein the first servo-valve piston comprises a second shaft region whose piston end is provided with a stop oriented toward the second servo-valve piston.

16. (New) The servo-valve according to claim 12, wherein the first servo-valve piston comprises a third shaft region on which the second servo-valve piston, which is embodied in the form of a sealing sleeve, is accommodated in a spring-loaded fashion.

17. (New) The servo-valve according to claim 13, wherein the first servo-valve piston comprises a third shaft region on which the second servo-valve piston, which is embodied in the form of a sealing sleeve, is accommodated in a spring-loaded fashion.

18. (New) The servo-valve according to claim 14, wherein the first servo-valve piston comprises a third shaft region on which the second servo-valve piston, which is embodied in the form of a sealing sleeve, is accommodated in a spring-loaded fashion.

19. (New) The servo-valve according to claim 16, wherein the third shaft region of the first servo-valve piston protrudes into the working chamber of the pressure booster.

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20. **(New)** The servo-valve according to claim 17, wherein the third shaft region of the first servo-valve piston protrudes into the working chamber of the pressure booster.

21. **(New)** The servo-valve according to claim 18, wherein the third shaft region of the first servo-valve piston protrudes into the working chamber of the pressure booster.

22. **(New)** The servo-valve according to claim 16, wherein the third shaft region of the first servo-valve piston has an end surface, which is oriented toward the working chamber and is acted on by the system pressure in the working chamber.

23. **(New)** The servo-valve according to claim 17, wherein the third shaft region of the first servo-valve piston has an end surface, which is oriented toward the working chamber and is acted on by the system pressure in the working chamber.

24. **(New)** The servo-valve according to claim 18, wherein the third shaft region of the first servo-valve piston has an end surface, which is oriented toward the working chamber and is acted on by the system pressure in the working chamber.

25. **(New)** The servo-valve according to claim 12, wherein the first servo-valve piston comprises a through conduit having an end oriented toward the control chamber provided with a second throttle restriction.

Applicant: Hans-Christoph MAGEL
Docket No. R.305058
Preliminary Amdt.

26. **(New)** The servo-valve according to claim 12, further comprising a line that exerts pressure on the differential pressure chamber of the pressure booster, and a line that relieves the pressure in the differential pressure chamber feeds into a servo-valve housing of the servo-valve at a junction point that lies between the first sealing seat and the second sealing seat.

27. **(New)** The servo-valve according to claim 12, wherein the second sealing seat is embodied in the form of a flat seat between the servo-valve housing and the second closing piston.

28. **(New)** The servo-valve according to claim 27, wherein the second sealing seat, which is embodied in the form of a flat seat, is provided between the servo-valve housing and a contoured piston surface of the second servo-valve piston.

29. **(New)** The servo-valve according to claim 12, wherein the second sealing seat is embodied in the form of a conical seat between the servo-valve housing and the second closing piston.